

ABSTRACT OF THE DISCLOSURE

A *Methylophilus* bacterium in which a gene having a nucleotide sequence identical to a DNA coding for a protein defined in the following (A) or (B) or a gene having homology to the DNA in such a degree that homologous recombination with the DNA occurs is disrupted, thereby expression of the gene is suppressed and the intracellular lysine decarboxylase activity is reduced or eliminated is cultured in a medium containing methanol as a major carbon source to produce and accumulate L-lysine in culture and the L-lysine is collected from the culture:

- (A) a protein which has the amino acid sequence of SEQ ID NO: 4;
- (B) a protein which has the amino acid sequence of SEQ ID NO: 4 including substitution, deletion, insertion or addition of one or several amino acid residues and has a lysine decarboxylase activity.